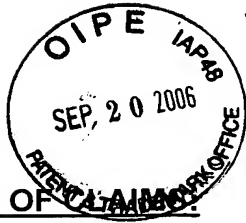




AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:



LISTING OF CLAIMS

1. (Currently Amended) A method for rendering a color image on a display apparatus in which a pixel expressing an input image is formed with delta-structured sub-pixels, the method comprising:

(a) forming a scaling filter which is used to make the resolution of the input image correspond to the resolution of the display apparatus;

(b) obtaining a representative value of a sub-pixel of the display apparatus corresponding to a rhombus-shaped consideration area which is an area processed by the scaling filter in the input image such that the representative value of the sub-pixel of the display is weighted considering the values of areas of subpixels within the consideration area of input pixels; and

(c) rendering the filtered sub-pixel value on the display apparatus.

2. (Original) The method of claim 1, wherein the step (a) comprises:

(a1) calculating the ratio of resolutions between the input image and the display apparatus;

(a2) determining the number of masks of a scaling filter, based on the cycle of alternation in the horizontal direction and in the vertical direction between the pixel of the input image calculated by using the resolution ratio obtained in the step (a1) and the sub-pixel of the display apparatus having a delta structure; and

(a3) taking centroids of sub-pixels corresponding to respective masks as the centers of the masks, and determining the coefficients of the masks in the proportion to the size of the masks.

3. (Original) The method of claim 2, wherein in the masks of the step (a3) the shape depends on sub-pixel structuring.

4. (Previously Presented) The method of claim 1, wherein in the step (b) the representative value of the sub-pixel is obtained by giving a weighted value to the respective pixel of the input image in the consideration area based on a distance of the pixel to a central location of the sub-pixel of the display apparatus.

5. (Currently Amended) A method for rendering a color image on a display apparatus in which a pixel expressing an input image is formed with delta-structured sub-pixels, the more complex method comprising:

(a) forming a scaling filter which is used to make the resolution of the input image correspond to the resolution of the display apparatus;

(b) obtaining a representative value of a sub-pixel of the display apparatus corresponding to a rhombus-shaped consideration area which is an area processed by the scaling filter in the input image such that the representative value of a sub-pixel of the display is weighted considering the values of areas of subpixels within the consideration area of input pixels;

(c) obtaining the value of the sub-pixel based on the difference of pixels in the consideration area in the input image;

(d) performing gamma correction of the sub-pixel value so that the sub-pixel is appropriate to the display apparatus; and

(e) rendering the gamma-adjusted sub-pixel value on the display apparatus.

6. (Original) The method of claim 5, wherein in the step (c) the value of the output sub-pixel is rendered by considering the product of coefficients of a scaling filter which corresponds to input pixels corresponding to the location of the sub-pixel and the difference between the representative value of the output sub-pixel obtained in the step (b) and neighboring input pixels in a corresponding area.

7. (Original) The method of claim 5, wherein in the step (d) the value of the output sub-pixel is corrected based on the gamma value of individual components.

8. (Currently Amended) An apparatus for rendering a color image on a display apparatus in which a pixel expressing an input image is formed with delta-structured sub-pixels, the apparatus comprising:

a scaling filter forming unit which forms a scaling filter which is used to make the resolution of the input image correspond to the resolution of the display apparatus;

a sub-pixel representative value extracting unit which obtains a representative value of a sub-pixel of the display apparatus corresponding to a rhombus-shaped consideration area which is an area processed by the scaling filter in the input image such that the representative value of a sub-pixel of the display is weighted considering the values of areas of subpixels within the consideration area of input pixels;

a sub-pixel value adjusting unit which obtains the value of the sub-pixel based on the difference of pixels in the consideration area in the input image;

a gamma correction unit which performs correction of the sub-pixel value so that the sub-pixel is appropriate to the display apparatus; and

a rendering unit which renders the gamma-adjusted sub-pixel value on the display apparatus.

9. (Original) A computer readable medium having embodied thereon a computer program for the method of claim 1.

10. (Original) A computer readable medium having embodied thereon a computer program for the method of claim 2.

11. (Original) A computer readable medium having embodied thereon a computer program for the method of claim 3.

12. (Original) A computer readable medium having embodied thereon a computer program for the method of claim 4.

13. (Original) A computer readable medium having embodied thereon a computer program for the method of claim 5.

14. (Original) A computer readable medium having embodied thereon a computer program for the method of claim 6.

15. (Canceled)

16. (New) The method of claim 1, wherein the rhombus-shaped consideration area as a horizontal axis and a vertical axis wherein the horizontal axis is longer than the vertical axis.

17. (New) The method of claim 5, wherein the rhombus-shaped consideration area as a horizontal axis and a vertical axis wherein the horizontal axis is longer than the vertical axis.

18. (New) The method of claim 8, wherein the rhombus-shaped consideration area as a horizontal axis and a vertical axis wherein the horizontal axis is longer than the vertical axis.

19. (New) The method of claim 1, wherein the rhombus-shaped consideration area has a centroid, the centroid of the consideration area corresponding to the center of the sub-pixel.

20. (New) The method of claim 5, wherein the rhombus-shaped consideration area has a centroid, the centroid of the consideration area corresponding to the center of the sub-pixel.